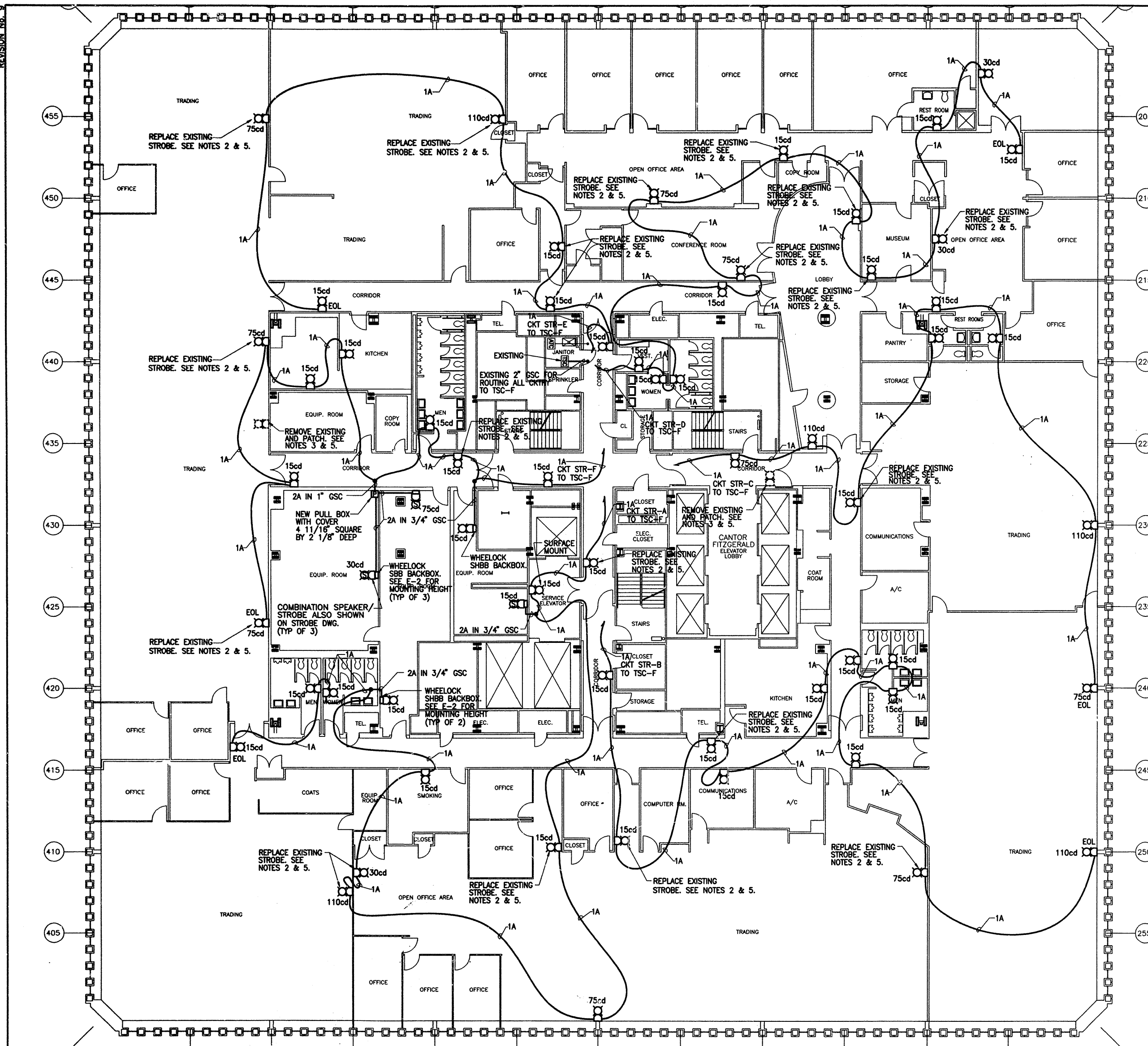


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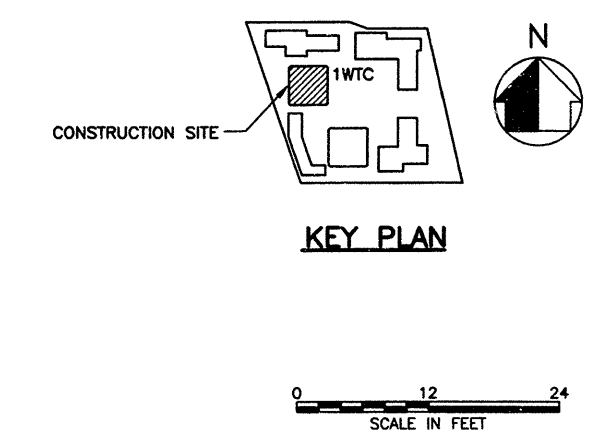


NOTES:

1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES, SEE DWG. E-1. FOR INSTALLATION DETAILS, SEE DWG. E-2. FOR WIRING DIAGRAMS, SEE DWG. E-3.
2. REPLACE EXISTING STROBE WITH THE SHOWN CANDELA RATED STROBE, AND REWIRE AS SHOWN. EXISTING BACKBOX AND CONDUIT STUB CAN BE UTILIZED IF IT IS SIMILAR TO THE TYPICAL STROBE OR COMBINATION BOX. SEE INSTALLATION DETAIL "B" ON DWG. E-2.
3. ONLY AFTER INSTALLED STROBES ARE TESTED AND OPERATIONAL, SHALL CONTRACTOR REMOVE EXISTING STROBE IN THE PRESENCE OF THE ENGINEER. PATCH WALL TO MATCH EXISTING WALL FINISH.
4. SINCE FIRE ALARM CIRCUIT LENGTH IS CRITICAL, ROUTING AND INSTALLATION OF ALL FIRE ALARM CIRCUITS SHALL BE AS SHOWN ON DRAWING.
5. DISCONNECT AND ABANDON EXISTING STROBE CIRCUITS IN CEILING. TAPE ENDS OF ABANDONED CONDUCTORS AND TAG AS ABANDONED. THIS WORK SHALL BE DONE IN THE PRESENCE OF THE ENGINEER.

STROBE CIRCUIT/LOADING TABLE

STROBE TYPE AND RATING	TYPE	15cd	30cd	75cd	110cd	CURRENT PER CIRCUIT (AMPS.)	CIRCUIT LENGTH (ft.)
QUANTITY OF STROBES PER CIRCUIT	STR-A	9	1	1	1	1.041	452
	STR-B	9	0	1	1	0.941	412
	STR-C	4	0	2	2	1.000	325
	STR-D	9	2	2	0	1.097	357
	STR-E	4	0	1	1	0.626	223
	STR-F	7	1	3	0	1.036	379
GRAND TOTAL						5.741	2148



PORT AUTHORITY
NEW YORK, NY

[Signature]
ENGINEERING PROGRAM MANAGER
WORLD TRADE CENTER
CHIEF ELECTRICAL ENGINEER

1	8/23/99	AS-BID	<i>[Signature]</i>
No.	Date	Revision	Approved
ENGINEERING DEPARTMENT			
DESIGN DIVISION			
WORLD TRADE CENTER			

ELECTRICAL
Title
**FIRE ALARM SYSTEM
DEVICE UPGRADE
PHASE III
1 WORLD TRADE CENTER
CONTRACT NO. 3**
**105th FLOOR
STROBE
INSTALLATION AND
REMOVAL PLAN**

This drawing subject to conditions in Contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

S. FELDSTEIN R. DUKESHIRE A.S.
Designed by Drawn by Checked by

AUGUST 9, 1999
Date

WTC-861.176 E-105-4
Contract Number Drawing Number